

MATERIAL SAFETY DATA SHEET

MSDS # 1165 – IKO S.A.M. ADHESIVE LVC

IMPORTANT: Read this Material Safety Data Sheet before handling or disposing of this product. This product safety information is provided to help our customers with health, safety and/or environmental matters. We have taken reasonable effort to ensure that the test methods and sources for this data are correct and reliable, however, we give no warranty, expressed or implied, regarding its correctness. Since conditions or methods of handling and using this product are beyond our control, we do not assume responsibility and expressly disclaim liability for damages resulting from or connected with the handling, storage, use or disposal of the product.

SECTION I - PRODUCT AND PREPARATION INFORMATION

Manufacturer/Supplier: BramCal Production Ltd.
Address: 305 Rutherford Road
Brampton, Ontario
L6W 3R5
Emergency Phone: CANUTEC: (613) 996-6666
Alternate Emergency Phone: (905) 457-2880 - EXT. 3354
Material Use: Primer Adhesive
Chemical Family: Mixture
Product Class: ADHESIVE UN 1133-3.2
WHIMIS Class: B, D-2

SECTION II - PREPARATION INFORMATION

Prepared/Reviewed By: HSE Department
Phone Number: (905) 457-2880 - EXT. 3354
Date: February 9, 2016

SECTION III - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO.	%	LD50s and LC50s Route and Species	Exposure Limit
Hexane	110-54-3	7-13	LD50 (oral-rat) > 28710 mg/kg	50 ppm (ACGIH)
Acetone	67-64-1	10-30	LD50 (oral-rat) > 5800 mg/kg	750 ppm (ACGIH)
Acetic Acid 1,1-dimethyl ethyl ester	540-88-5	10-30	LC50 (inhl-rat) 4211 ppm (6 hours) LD50 (oral-rat) 4500 mg/kg LD50 (skin-rabbit) >2000 mg/kg	200 ppm TWA (ACGIH)
Methyl Ethanoate	79-20-9	10-30	LC50 (inhl-rat) 1600 ppm LD50 (oral-rat) 5000 mg/kg LD50 (dermal-rat) 2000 mg/kg LD50 (dermal-rabbit) 5000 mg/kg	250 ppm STEL (ACGIH) 200 ppm TLV-TWA (ACGIH)
Toluene	108-88-3	1-5	LC50(inhl-rat) 49,000 mg/m ³ 4h LD50 (oral-rat) 636 mg/kg LD50 (dermal-rabbit) 12,400 mg/kg	20 ppm ACGIH TLV
Methyl Alcohol	67-56-1	< 0.6	LD50 (dermal-rabbit) 15800 mg/kg LD50 (oral-rat) 5628 mg/kg LC50 (inhl-rat) > 32000 ppm (8 hours) LC50 (inhl-rat) 64000 ppm (4 hours) LD50 (oral-mouse) 7300 mg/kg	200 ppm TWA skin (ACGIH) 250 ppm STEL skin (ACGIH)

SECTION IV - PHYSICAL DATA

ODOUR AND APPEARANCE: Green liquid with solvent odour
ODUR TRESHOLD: No value available
PERCENT NON VOLATILE BY WEIGHT: 36%
EVAPORATION RATE: 3-5
VAPOUR PRESSURE (mmHg): 170 -180 @ 20°C
BOILING POINT: 55°C

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pH VALUE: Not Applicable
FREEZING POINT: Not Applicable
DENSITY (g/ml): 0.872
VAPOUR DENSITY (Air = 1): 2- 2.8
VOC STATEMENT (g/L): 250 max.

SECTION V - FIRE AND EXPLOSION HAZARDS

TDG FLAMMABILITY CLASSIFICATION: Class 3, PG II	FLASHPOINT: -18 °C TCC	HAZARDOUS COMBUSTION PRODUCTS: When forced to burn this product gives out carbon monoxide, carbon dioxide, and aldehydes.
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EXTINGUISHING MEDIA:
Foam, dry chemical, carbon dioxide or any class B extinguishing agent

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapours may ignite explosively. Vapours may spread long distances. Prevent build-up of vapours. Extinguish all pilot lights and turn off heaters, non-explosion-proof electrical equipment and all other sources of ignition. Keep away from and do not store or use near heat, sparks or flames caused by such sources as electricity, static discharge, welding, grinding or flame cutting operation. Ground all equipment. Use spark-proof tools and conductive shoes to avoid sparking hazards.

SPECIAL FIREFIGHTING PROCEDURES:

Exposure to vapours or products of combustion should be avoided. Self-contained breathing apparatus is recommended. Vapours may form an explosive mixture with air. Closed containers may rupture when exposed to extreme heat.

SECTION VI - HEALTH HAZARD DATA: TOXICOLOGICAL PROPERTIES AND FIRST AID MEASURES

ACUTE EFFECTS OF OVEREXPOSURE

INHALATION: Excessive exposure to vapours or spray mists can result in headache, dizziness, incoordination and loss of consciousness. Irritation of the eyes, nose, throat and lungs can also occur when exposed to high vapour concentrations. Some reports have associated repeated and prolonged occupational overexposure to solvents with permanent nervous system damage.

EYE CONTACT: This material can cause eye irritation. The effects are usually reversible.

SKIN CONTACT: This material may cause defatting and irritation of skin (Dermatitis) upon prolonged or repeated contact.

INGESTION: Swallowing can cause nausea, vomiting, diarrhea and loss of consciousness.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove victim to fresh air. Restore breathing. Treat symptomatically. Consult a physician.

SPLASH (EYES): Flush immediately with large amounts of water for at least 15 minutes. Take to a physician for medical treatment.

SPLASH (SKIN): Wash affected areas with soap and water. Remove contaminated clothing.

INGESTION: Drink 1 or 2 glasses of water to dilute. **DO NOT INDUCE VOMITING.** Consult a physician or Poison Control center immediately. Treat symptomatically.

CHRONIC EFFECTS OF OVEREXPOSURE	CARCINOGENECITY	FETOTOXICITY/TERATOGENECITY/MUTAGENECITY	IRRITANT	SENSITIZER
Prolonged or repeated contact with skin will cause irritation, defatting, dermatitis. Vapours may cause Respiratory Tract Irritation	No additional comment available	This product contains trace amounts of Methanol which have been reported to cause birth defects in rats exposed to 20,000 ppm. In experimental animals, methanol is fetotoxic, teratogenic and has produced significant behavioral abnormalities in offspring at dose levels not producing maternal toxic effects. Behavioral abnormalities were observed in the offspring of rats given drinking water containing 2% methanol. Methanol has produced mutagenic effects (somatic cells) in experimental animals.	YES: Skin, Eye and Respiratory Tract	YES: Skin

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SECTION VII - REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATIONS: Will not occur

INCOMPATIBILITY (Materials to avoid): Oxidizing compounds

CONDITIONS TO AVOID: Vapour concentrations. Ignition sources

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN in case material is Released or Spilled:

Restrict access to area. Remove all sources of ignition. Ventilate area. Absorb spill with an absorbent material such as vermiculite or sand and place material into a closed container. If a large spill, dike area to prevent this material from entering water systems or sewers. Wear protective equipment during cleanup.

WASTE DISPOSAL METHOD:

Dispose of this material in accordance with Federal, Provincial, and Municipal regulations.

SECTION IX - SPECIAL PROTECTION INFORMATION

PERSONAL PROTECTION EQUIPMENT

PROTECTIVE GLOVES: Chemical resistant gloves made of Viton should be used. Gloves made of nitrile, neoprene or rubber may be used for exposure of short duration.

EYE PROTECTION: Chemical safety goggles should be worn to prevent eye contact. A face shield may also be necessary.

RESPIRATORY PROTECTION: An organic vapour cartridge respiratory mask shall be worn to prevent the inhalation of vapours or spray mist when exposure guideline is exceeded. If respiratory protection is required, institute a complete respiratory protection program.

OTHER PROTECTIVE EQUIPMENT: Eye wash fountain and safety showers must be available in areas where this material is used. Wear protective clothing to prevent skin contact.

ENGINEERING CONTROLS - VENTILATION: General (dilution) ventilation is required during normal use. Local exhaust ventilation may be required during certain operations to keep exposure level below the limit listed in Section II of this data sheet. Contains extremely flammable solvents. Take suitable fire precaution.

SECTION X - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING OTHER PRECAUTIONS

STORAGE: Keep storage area separate from populated work areas. Store in a cool, dry, well-ventilated area, out of direct sunlight and away from incompatible materials and any source of ignition. Ventilation fans and electrical equipment should be non-sparking.

HANDLING: Avoid prolonged or repeated inhalation of vapours or spray mist. Avoid prolonged or repeated skin contact. Ground and bond equipment and container to prevent a static charge build-up.

ATTENTION: Emptied containers may retain hazardous residue and explosive vapours. Keep away from heat, sparks and flames. Do not cut puncture or weld near this container. Follow label warning until container is thoroughly cleaned or destroyed.

DO NOT LOAD IN PASSENGER AIRCRAFT